



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/451,269	11/30/1999	MARTINUS J. TOPS	PHN.17.186	8816

7590

08/29/2002

US PHILIPS CORPORATION
580 WHITE PLAINS ROAD
TARRYTOWN, NY 10591

EXAMINER

ZIMMERMAN, GLENN

ART UNIT

PAPER NUMBER

2879

DATE MAILED: 08/29/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/451,269

Applicant(s)

TOPS ET AL.

Examiner

Glenn Zimmerman

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 June 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 11 and 12 is/are pending in the application.
- 4a) Of the above claim(s) 7-10 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 11 and 12 is/are rejected.
- 7) ☒ Claim(s) 2, 3, 5 and 6 is/are objected to.
- 8) ☒ Claim(s) 1-10 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 06 June 2002 is: a) ☒ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

Amendment, filed on June 6, 2002, has been entered and acknowledged by the examiner.

The substitute specification, filed on June 6, 2002, has been entered and acknowledged by the examiner.

Drawings

The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on June 6, 2002 have been approved.

Claim Objections

Claims 2, 3, 5 and 6 are objected to because of the following informalities: In claims 3 line 2, the examiner suggests changing "wires" to "the wires". In claims 6 line 2, the examiner suggests changing "wires" to "the wires". In claim 1 lines 3-4, the applicant writes that "a beginning of a current-supply wire or current-supply wires is largely detached from the flange". In claim 2 lines 2-3, the applicant writes that "the beginning of said current-supply wire or said current-supply wires is attached to the flange". A wire cannot be attached while it is detached. In claim 4 line 4, the applicant writes that "a beginning which is largely detached from the flange". In claim 5 lines 2-3, the applicant writes that "the beginning of said current-supply wire or said current-supply

Art Unit: 2879

wires is attached to the flange". A wire cannot be attached while it is detached. Claims 2 and 5 fail to further limit the claims. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 1 lines 3-4, the applicant writes that "a beginning of a current-supply wire or current-supply wires is largely detached from the flange". In claim 2 lines 2-3, the applicant writes that "the beginning of said current-supply wire or said current-supply wires is attached to the flange". A wire cannot be attached while it is detached. In claim 4 line 4, the applicant writes that "a beginning which is largely detached from the flange". In claim 5 lines 2-3, the applicant writes that "the beginning of said current-supply wire or said current-supply wires is attached to the flange". A wire cannot be attached while it is detached. Claims 2 and 5 fail to further limit the claims.

per

also

also

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 11 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Renders et al. U.S. Patent 4,078,301

Regarding claims 1 and 4, Renders et al. disclose a cathode ray tube (**col. 1 lines 4-7**) with a deflection unit (**col. 1 lines 4-7**) comprising a saddle-shaped deflection coil (**col. 1 lines 11-12**) with a flange (**foremost portion ref. 19**), the deflection coil flaring out (**col. 1 line 6**) in a fan-shaped manner (**Fig. 2c**) from a rear end to a front end, characterized in that a beginning of a current-supply wire (**connection wire or connection wire ref. 11 or 15 respectively**) or current supply wires is largely detached from the flange, which the flange does not exhibit an impression of the beginning of the current-supply wire or current-supply wires at the location where the beginning is detached from the flange.

Regarding claims 2 and 5, Renders et al. disclose a cathode ray tube as claimed in claim 1, characterized in that the beginning of the current-supply wire or the current-supply wires is attached to the flange over a length L which is $\frac{1}{6}$ to $\frac{1}{3}$ of a width D of the flange. One can clearly see from the figures 2c-2e and 5c-5e that the connection wire reference 15 or 11 will wrap around the coil and there will be a beginning portion of the wire, which is a length L, which is $\frac{1}{6}$ to $\frac{1}{3}$ of a width D of the flange, which is attached to the flange.

Regarding claims 3 and 6, Renders et al. disclose a cathode ray tube as claimed in claim 1, characterized in that the deflection coil is formed by winding a plurality of wires (**col. 1 lines 7-9**).

Regarding claim 11, Renders et al. disclose a saddle-shaped deflection coil, comprising: a flange (**foremost portion ref. 19**) including a first portion (**Fig. 2d no ref. #**) having a first width and a second portion (**Fig. 2d no ref. #**) having a second width, the first width and the second width constituting a width D, the first width being larger than the second width; and a current supply wire (**connection wire or connection wire ref. 11 or 15 respectively**) including a beginning portion having a length L (**Fig. 2d no ref. #**), the beginning portion being detached from the first portion of the flange and attached to the second portion of the flange. One can clearly see from Figures 2c-2e and 5a-5c that the beginning portion of the current supply wire is attached to the second portion of the flange.

Regarding claim 12, Renders et al. disclose the saddle-shaped coil of claim 11, wherein the length L is $1/6$ to $1/3$ of the width D. One can clearly see from the figures 2c-2e that the connection wire reference 15 or 11 will wrap around the coil and there will be a beginning portion of the wire, which is a length L, which is $1/6$ to $1/3$ of a width D of the flange, which is attached to the flange.

Response to Arguments

The applicant argues in the amendment of June 6, 2002 that “*Renders* can not be interpreted to disclose a large detachment of the current wire supplies 11 and 15 from a left-side flange 23 or a right-side flange 23 because, the current wire supplies 11 and 15 are completely detached from the left-side flange 23 and the current wire supplies 11 and 15 are slightly detached from the right-side flange 23. See, FIGS. 2B-2E of *Renders*”. The examiner believes the current wire is largely detached from the flange because there is a substantial and ample distance of beginning wire that is detached from the flange, and there is a part that is attached. Also please notice that the word “largely” is a relative term. The words “completely” and “slightly” are also relative terms. The applicant argues that “*Renders* unequivocally does not disclose, teach, or suggest ‘a beginning of a current-supply wire or current-supply wires is largely detached from the flange’ as recited in independent claims 1 and 4”. The *Renders* reference clearly anticipates “a beginning of a current-supply wire or current-supply wires is largely detached from the flange” from Figure 2d. Detach means to separate or disconnect.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Luard et al. U.S. Patent 6,100,779 disclose a CRT Deflection Unit and Its Method of Manufacture. Barbin U.S. Patent 3,588,566 disclose an

Art Unit: 2879


Electromagnetic Deflection Yoke having Bypassed Winding Turns. Irvine et al. U.S.


Patent 2,939,978 discloses a Deflection Yoke.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn Zimmerman whose telephone number is (703) 308-8991. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (703) 305-4794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7382 for regular communications and (703) 308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is n/a.


Glenn Zimmerman
August 22, 2002


NIMESHKUMAR D. PATEL
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800